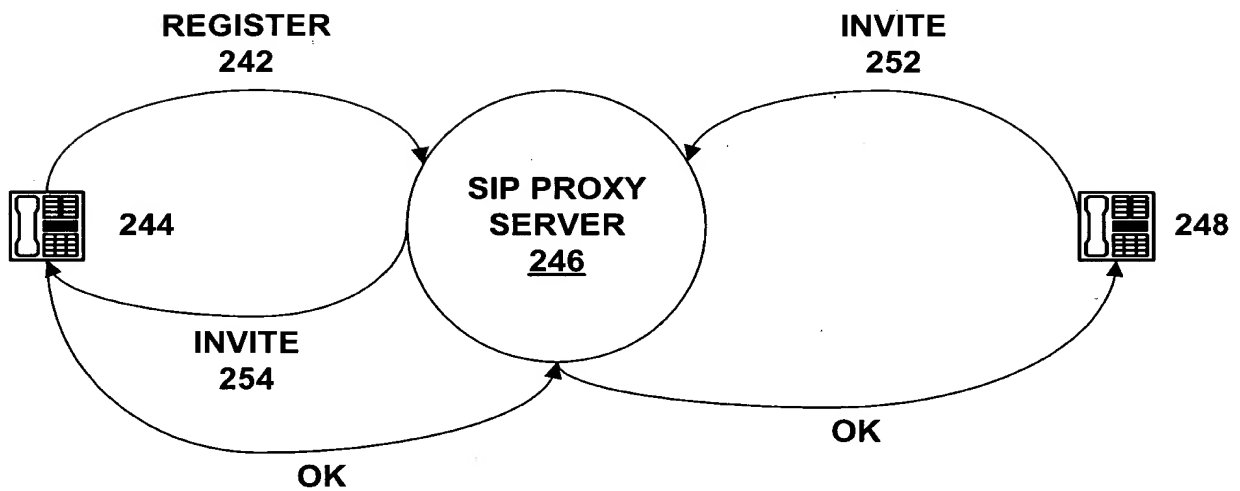
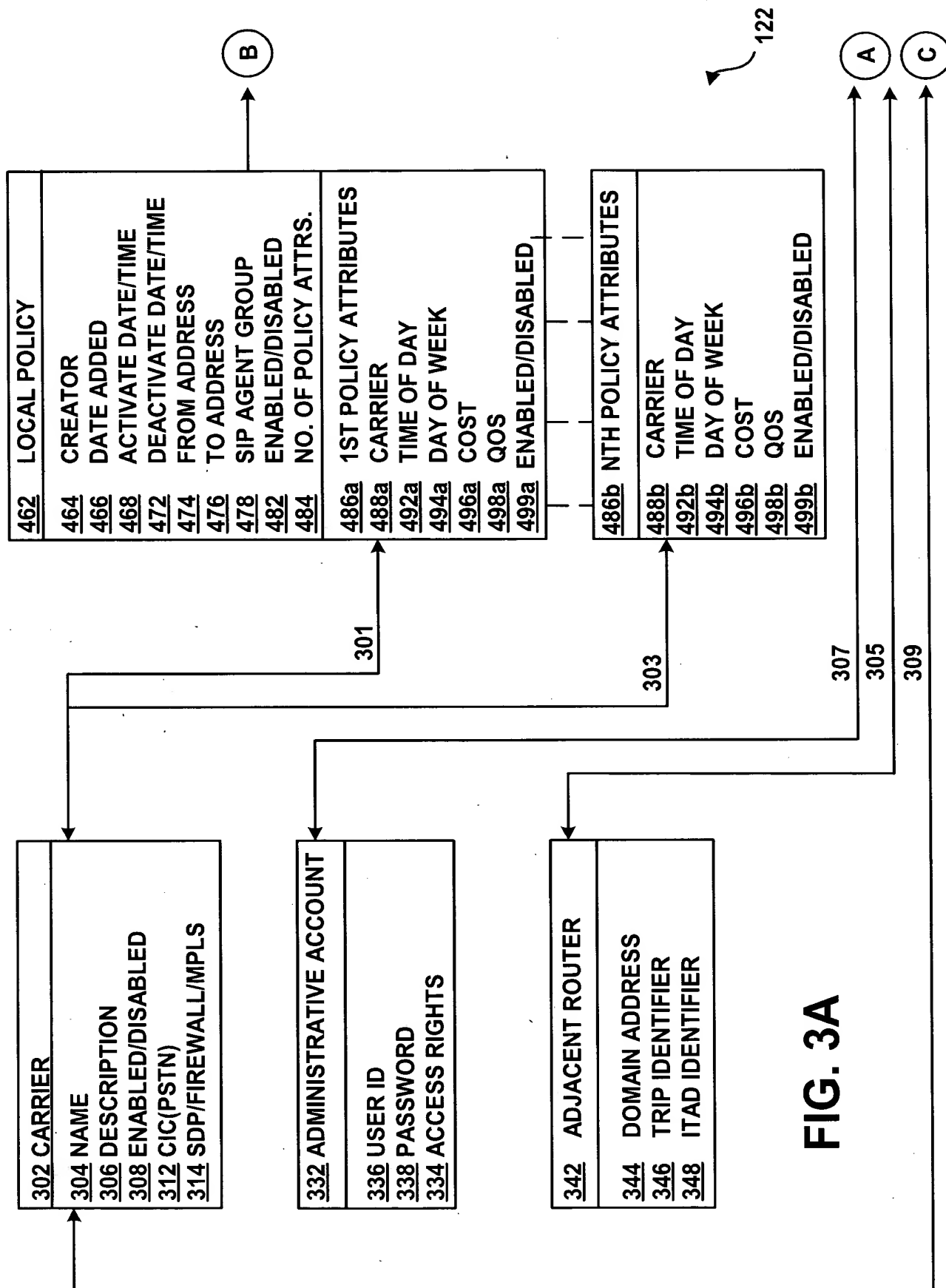
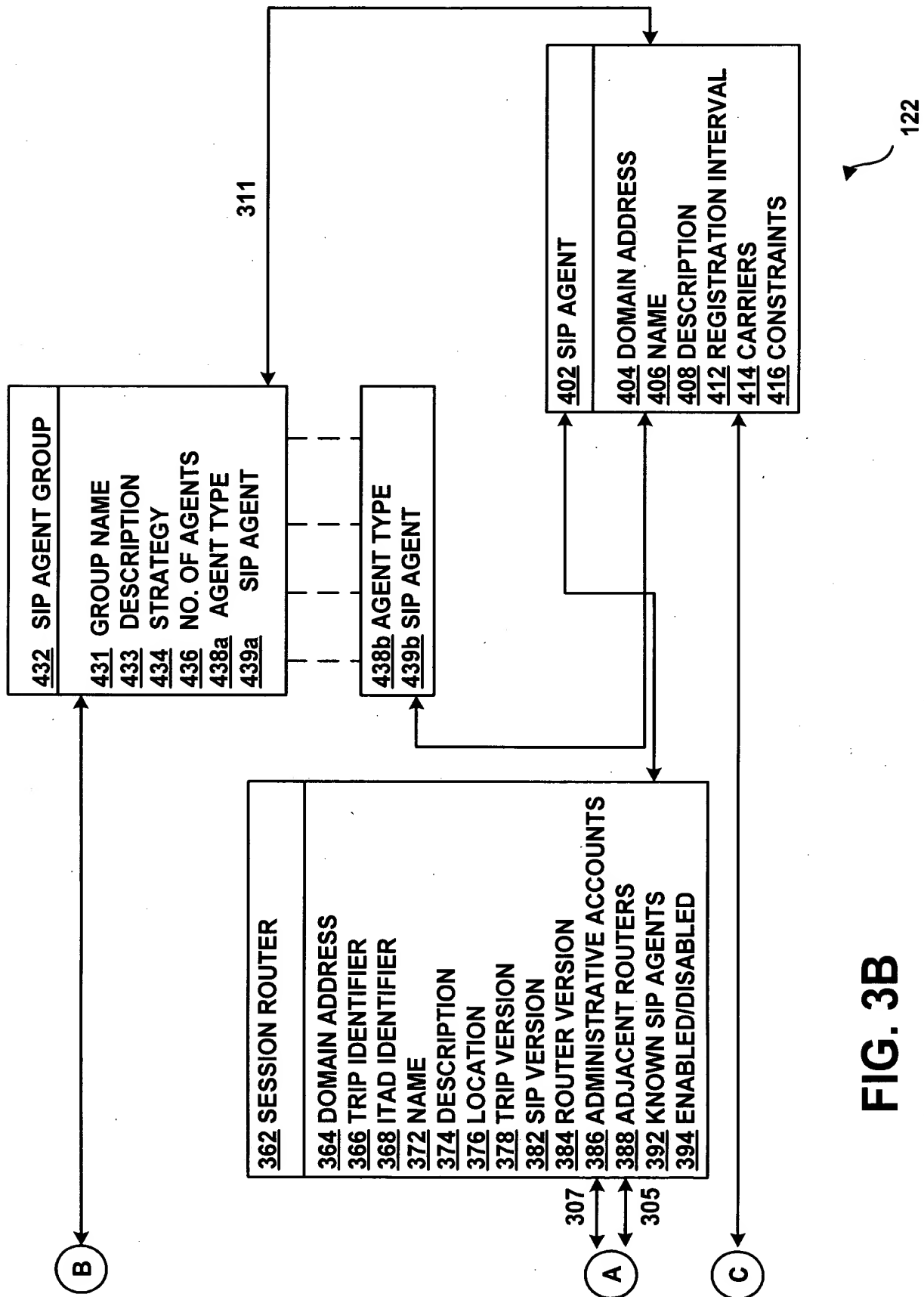


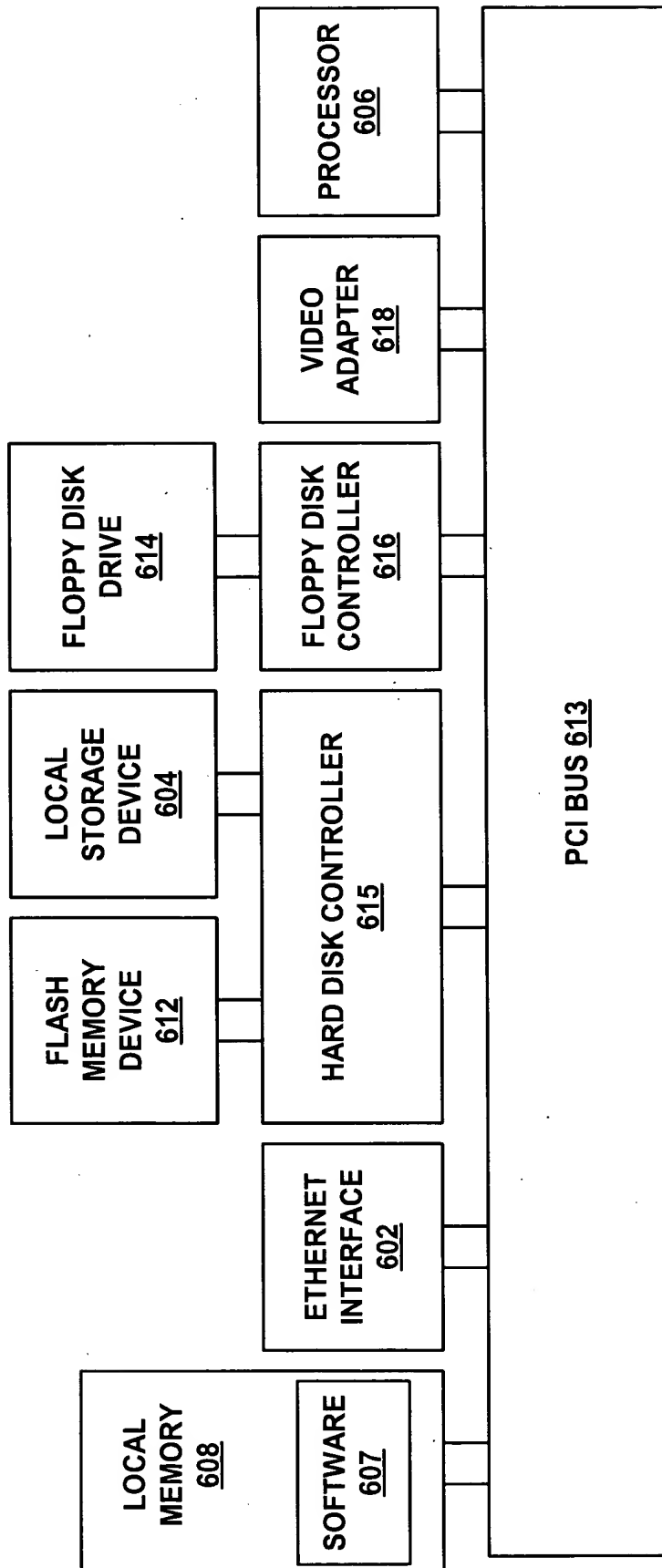
FIG. 1



**FIG. 2**  
**(PRIOR ART)**

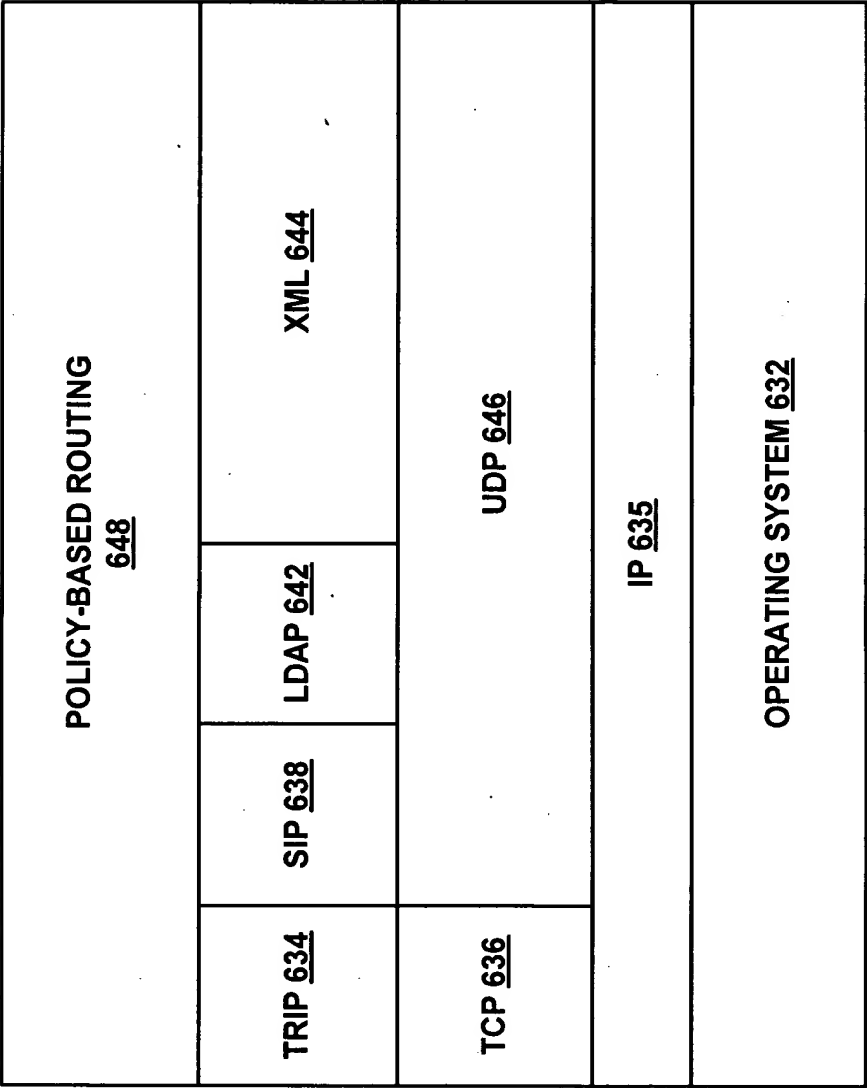




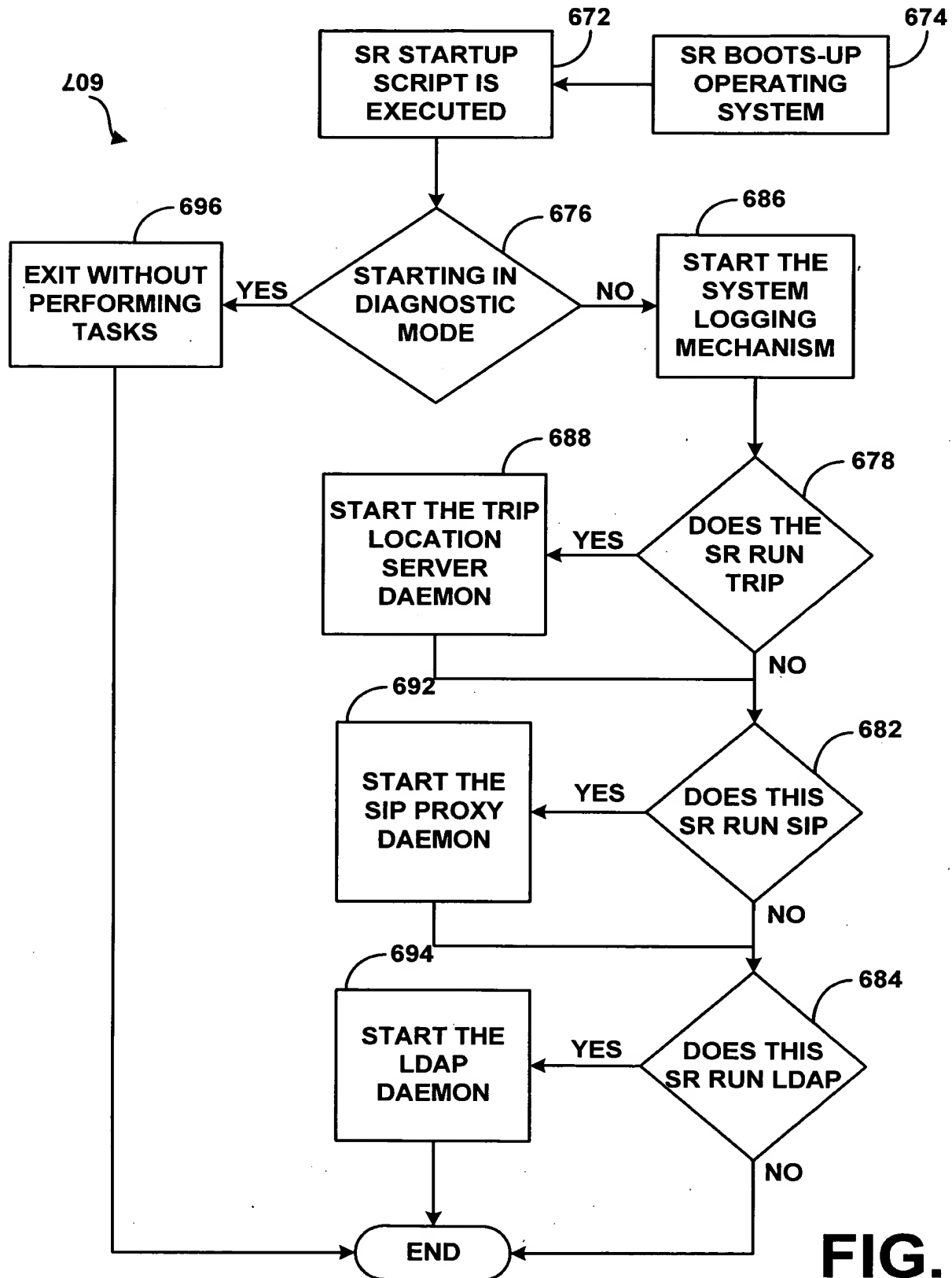


122

**FIG. 4**



607 **FIG. 5**

**FIG. 6**

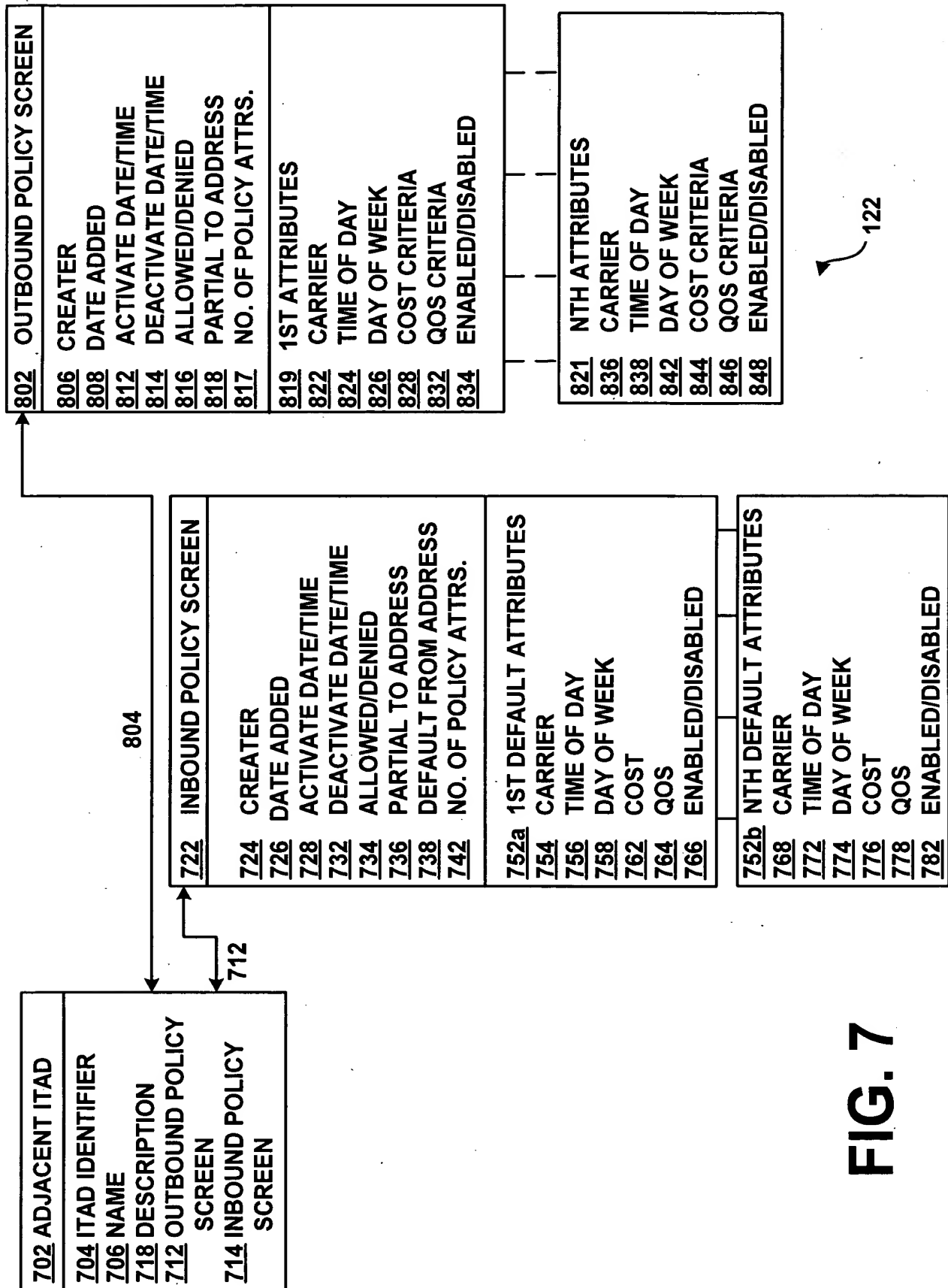
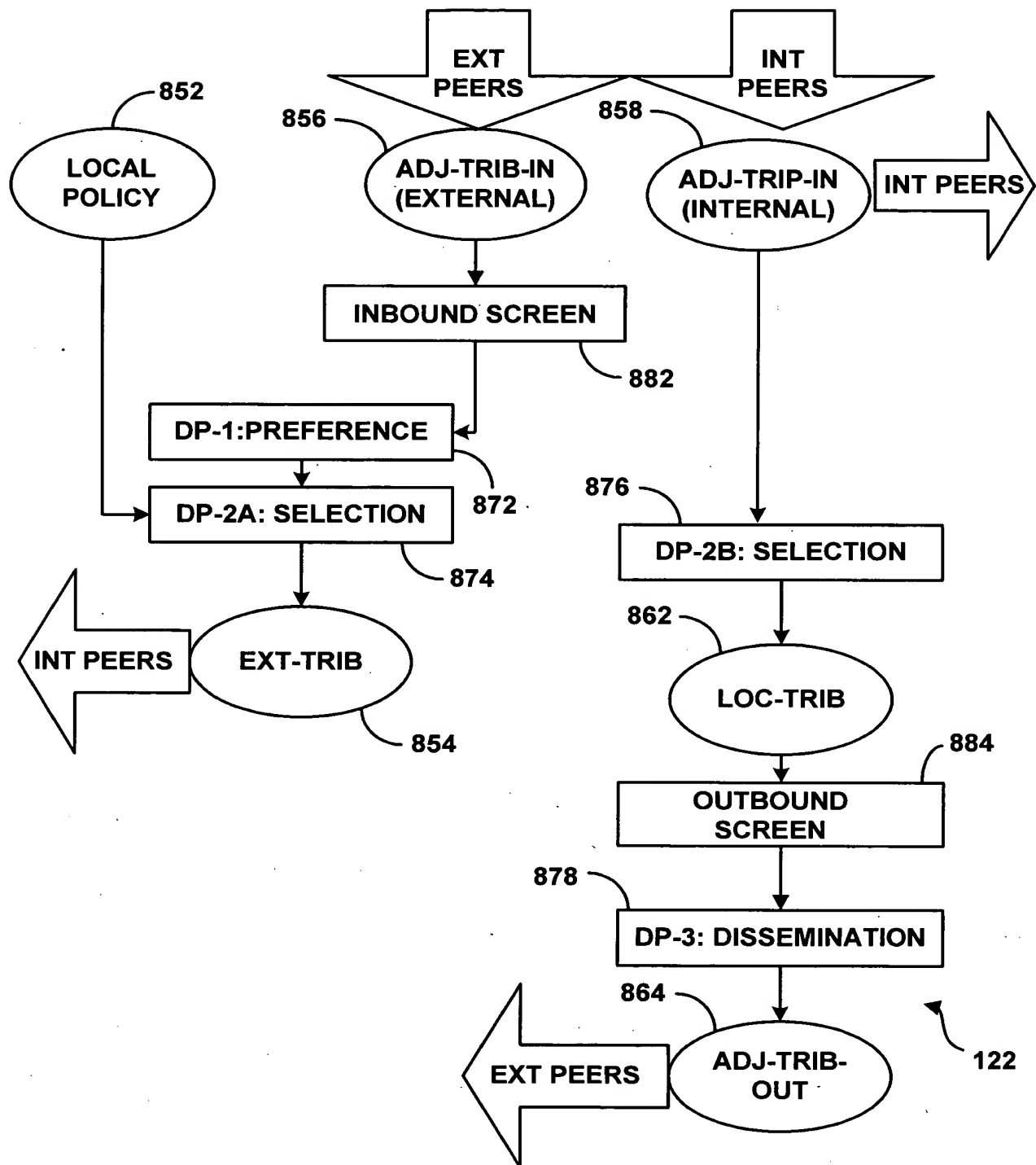


FIG. 7

**FIG. 8**

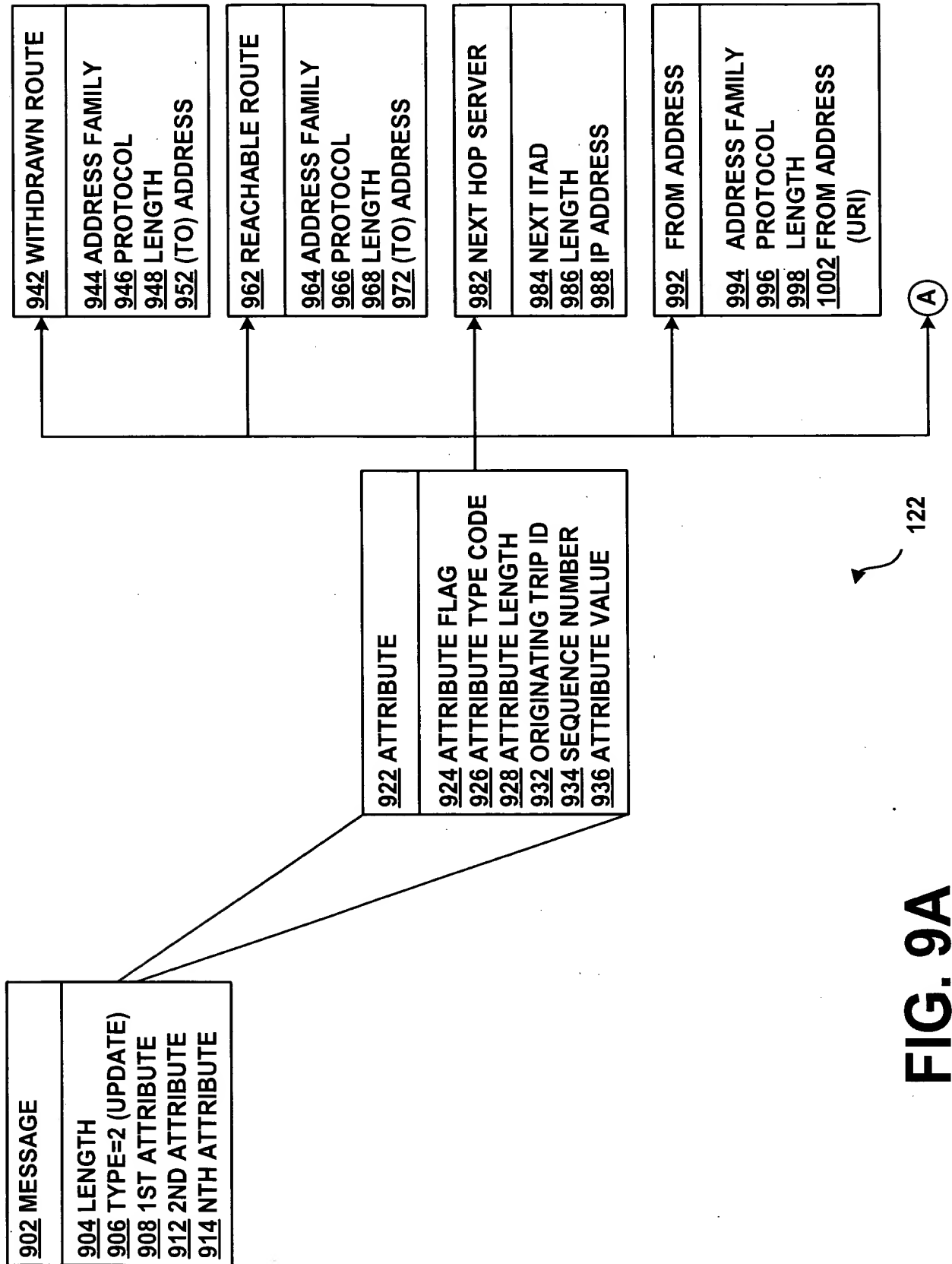


FIG. 9A

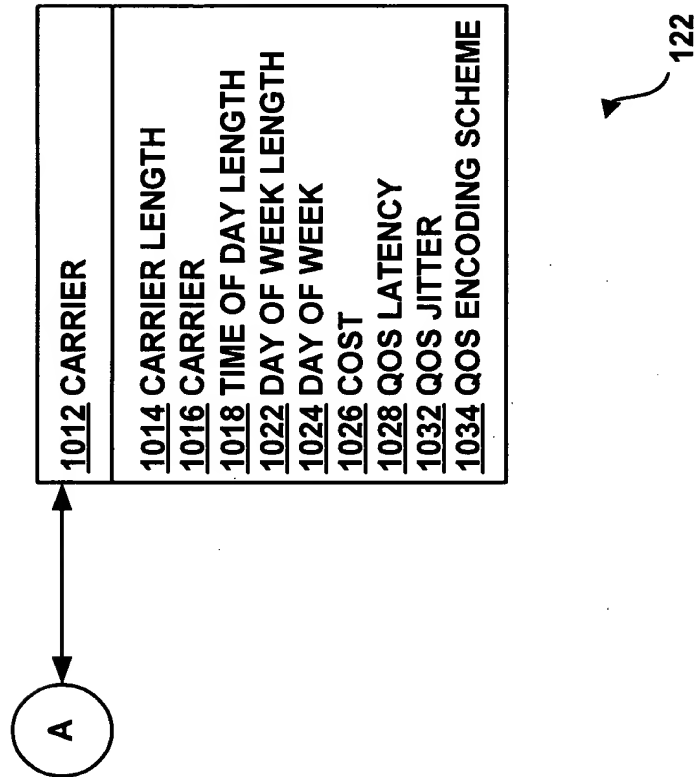


FIG. 9B

# FIG. 10

The diagram illustrates a network topology with four main components: EXTERNAL NETWORK, FARAWAY NETWORK, NEXTGEN NETWORK, and ENTERPRISE NETWORK. Each network is represented by an oval. Connections are shown as lines between nodes (cylinders) and gateways (rectangles). Gateway information is provided in boxes associated with each network.

**EXTERNAL NETWORK** (Oval) contains node 2003. It is connected to node 2007, which is connected to node 2006 in the FARAWAY NETWORK. The EXTERNAL NETWORK gateway information is:

GATEWAY: E  
ADDR: GATEWAYE.CARRIER.COM  
FROM: \*  
TO: 1  
CARRIER: EXTERNAL  
TIME: 0000-2400  
DAYS: M-F  
COST: 0.50

**FARAWAY NETWORK** (Oval) contains node 2006. It is connected to node 2007 in the EXTERNAL NETWORK and node 2001 in the ENTERPRISE NETWORK. The FARAWAY NETWORK gateway information is:

GATEWAY: D  
ADDR: FARAWAY.ACME.COM  
FROM: \*  
TO: 1-978  
CARRIER: FARAWAY  
TIME: 0000-2400  
DAYS: S, U  
COST: 0.10

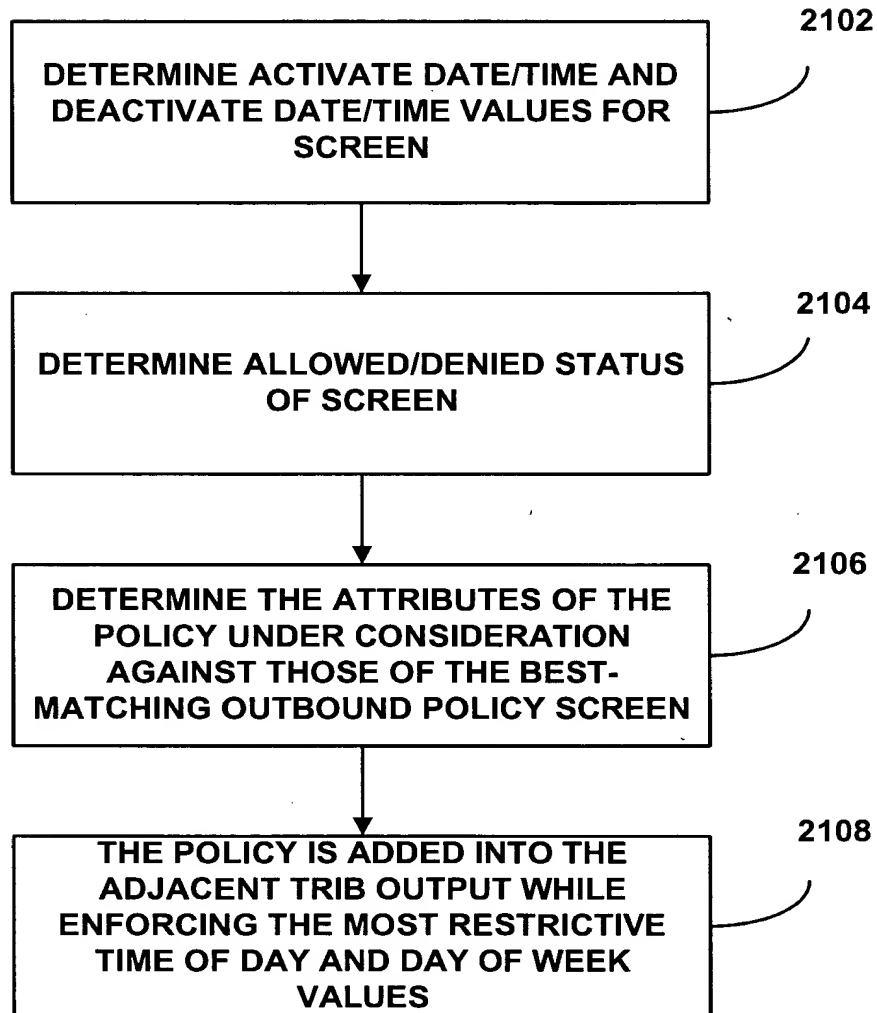
**NEXTGEN NETWORK** (Oval) contains nodes 2004 and 2005. It is connected to node 2001 in the ENTERPRISE NETWORK and node 2003 in the EXTERNAL NETWORK. The NEXTGEN NETWORK gateway information is:

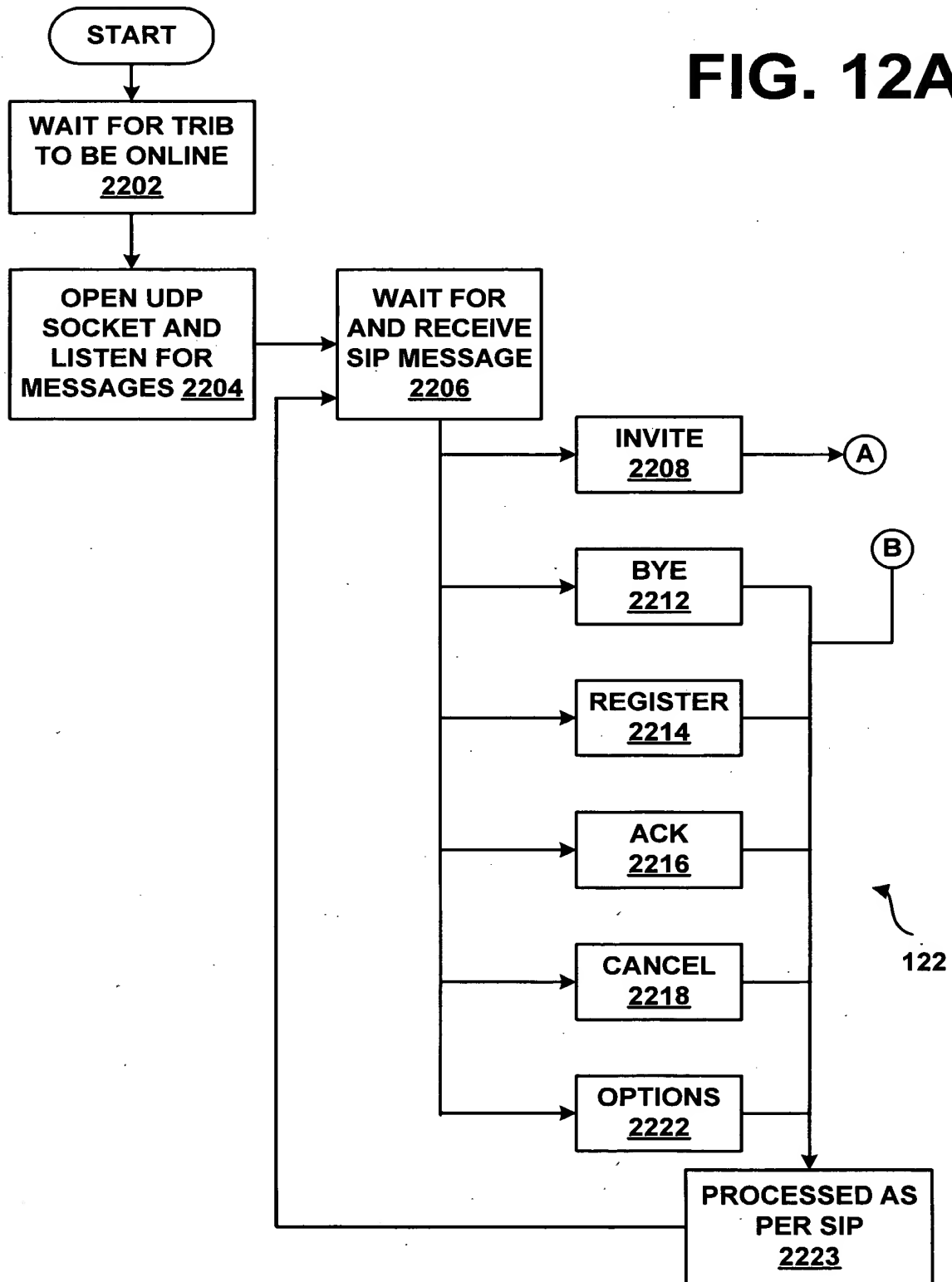
GATEWAY: A  
ADDR: GATEWAY1.ACME.COM  
FROM: \*  
TO: 1-781  
CARRIER: NEXTGEN  
TIME: 0000-0700, 1700-2400  
DAYS: M-F  
COST: 0.20  
CARRIER: NEXTGEN  
TIME 0700-1700  
DAYS: M-F  
COST: 0.30

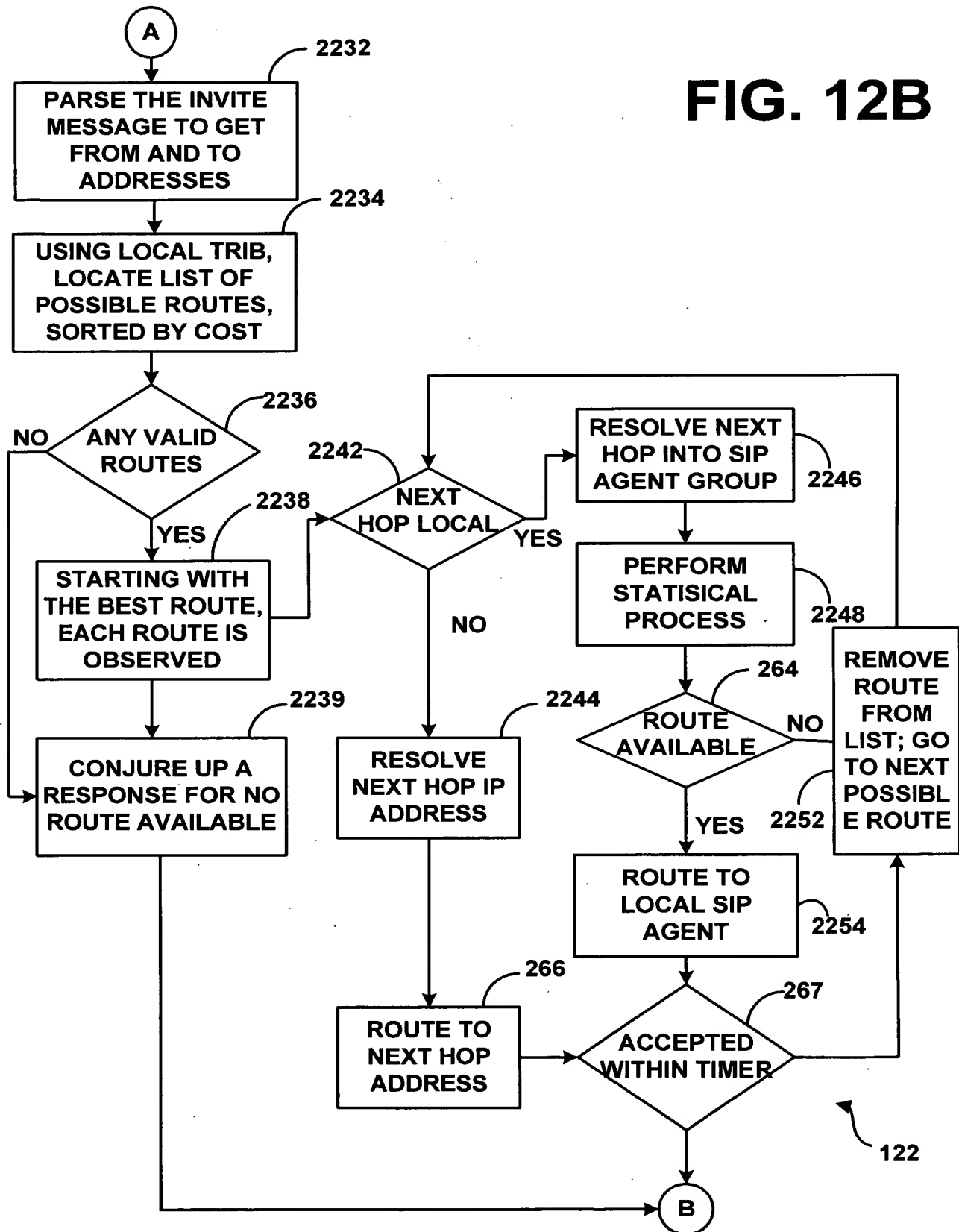
**ENTERPRISE NETWORK** (Oval) contains nodes 2000, 2001, and 2008. It is connected to node 2000 in the ENTERPRISE NETWORK, node 2001 in the ENTERPRISE NETWORK, and node 2003 in the EXTERNAL NETWORK. The ENTERPRISE NETWORK gateway information is:

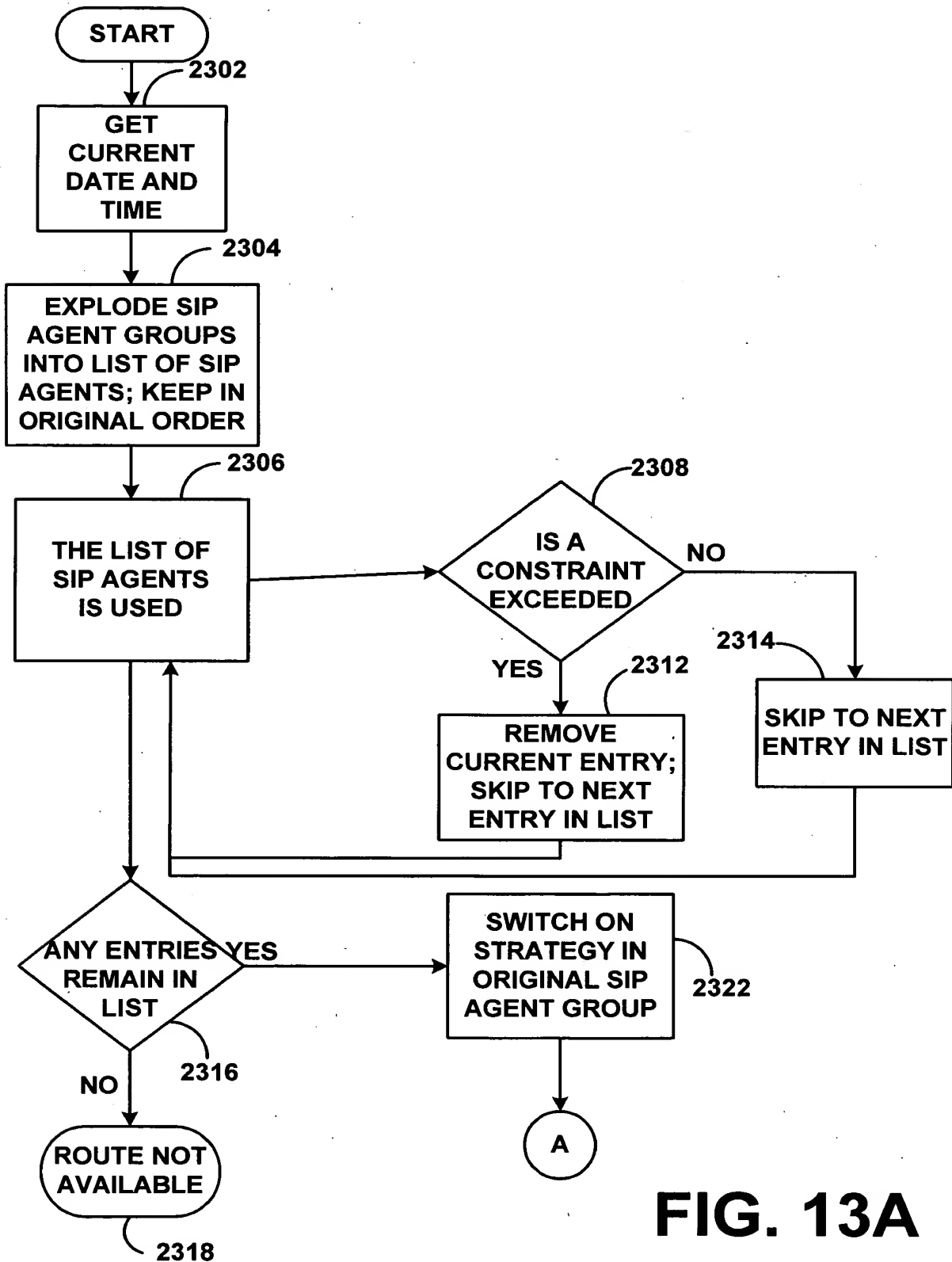
GATEWAY: C  
ADDR: GATEWAY3.ACME.COM  
FROM: \*  
TO: 1-781-933  
CARRIER: ENTERPRISE  
TIME: 0000-0700, 1700-2400  
DAYS: M-F  
COST: 0.25  
FROM: \*  
TO: ACME.COM  
CARRIER: ENTERPRISE  
TIME 0000-2400  
DAYS: M-F  
COST: 0.25

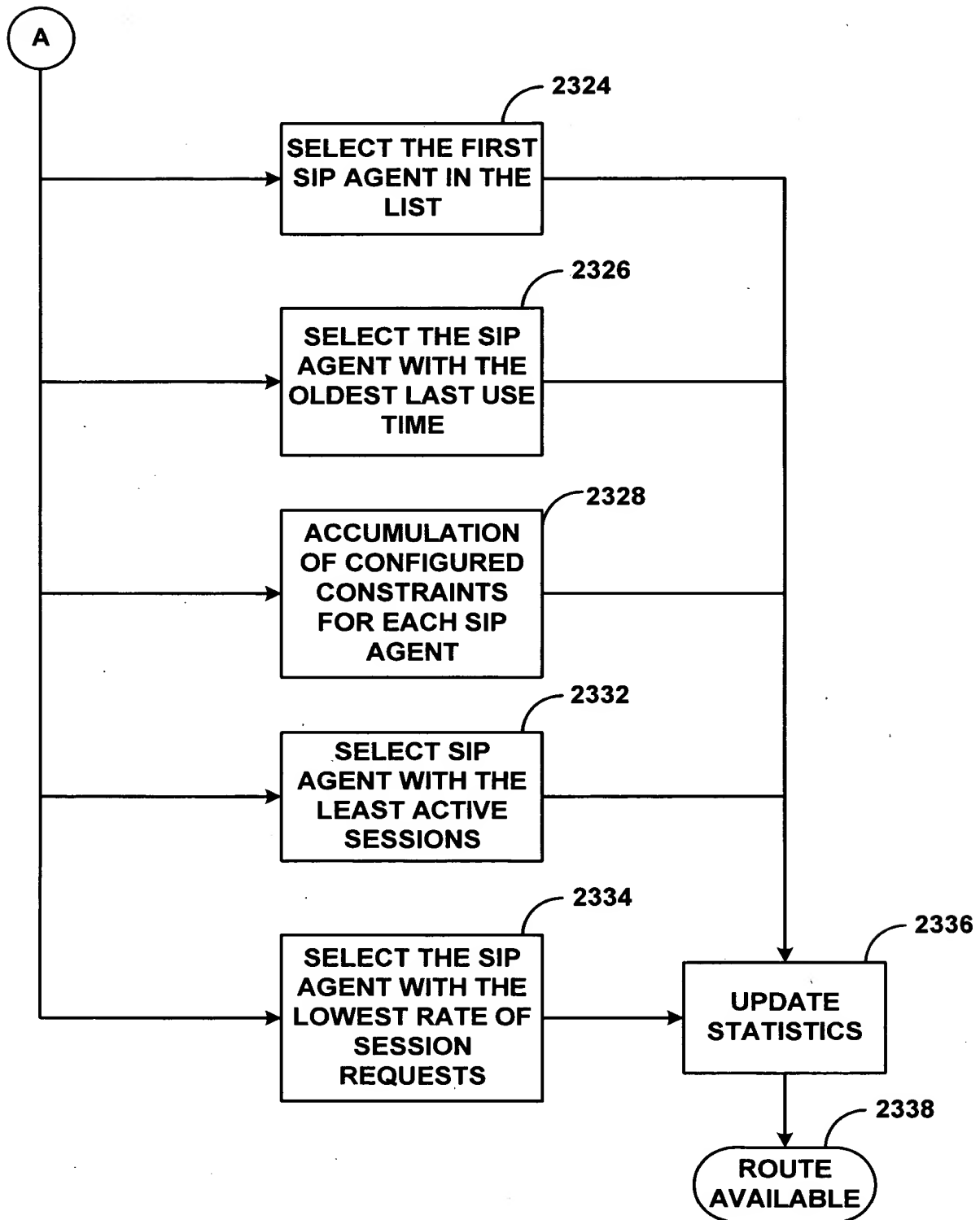
Additional connections and nodes include node 2002 in the FARAWAY NETWORK, node 2009 in the ENTERPRISE NETWORK, and node 2005 in the NEXTGEN NETWORK. The diagram also shows a dashed box around nodes 2004 and 2005, and a dashed box around nodes 2000 and 2001.

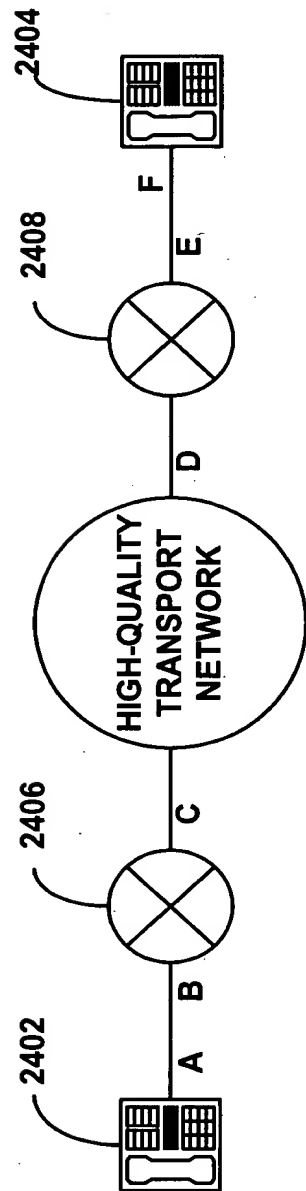
**FIG. 11**

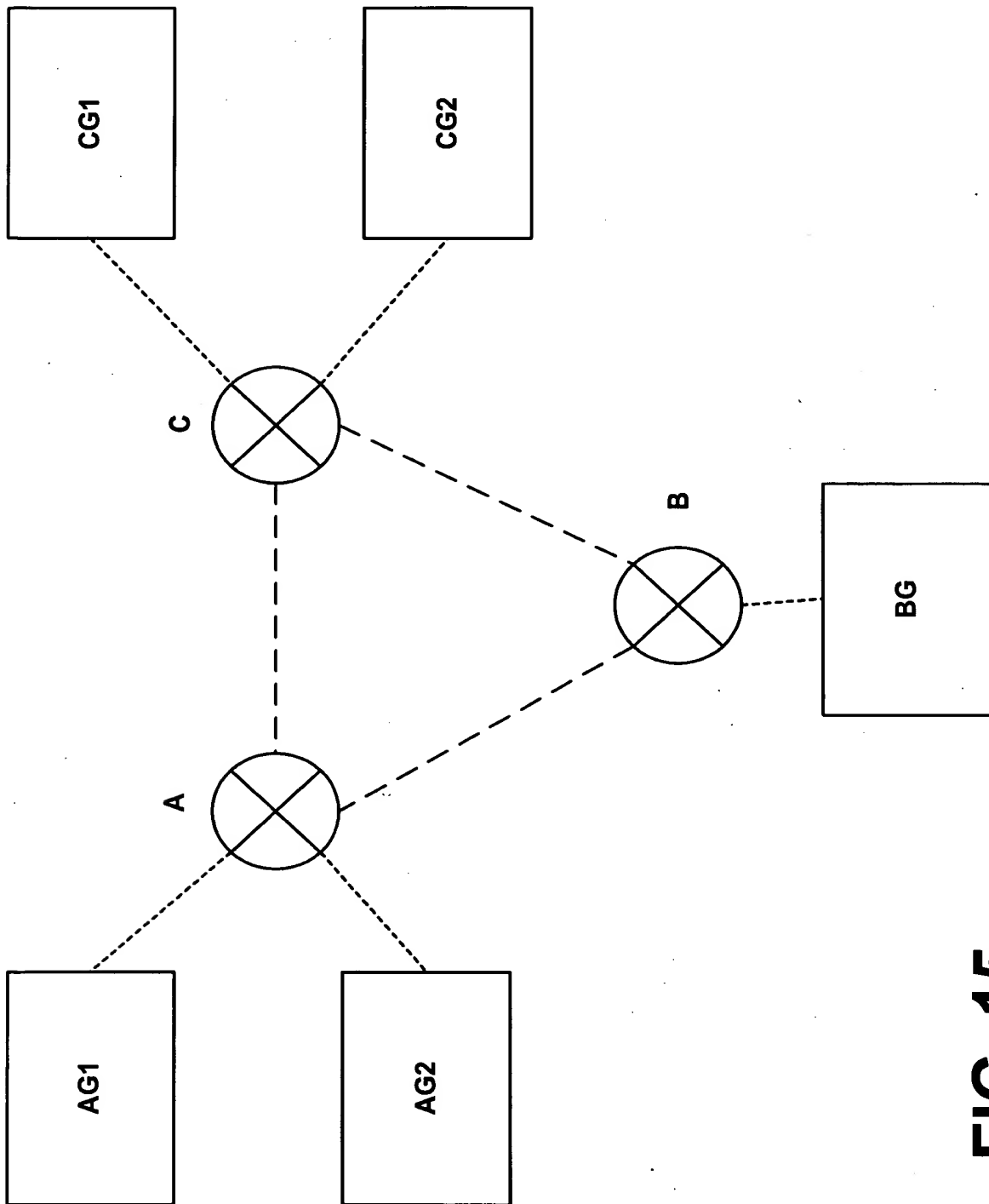
**FIG. 12A**

**FIG. 12B**

**FIG. 13A**

**FIG. 13B**

**FIG. 14**

**FIG. 15**

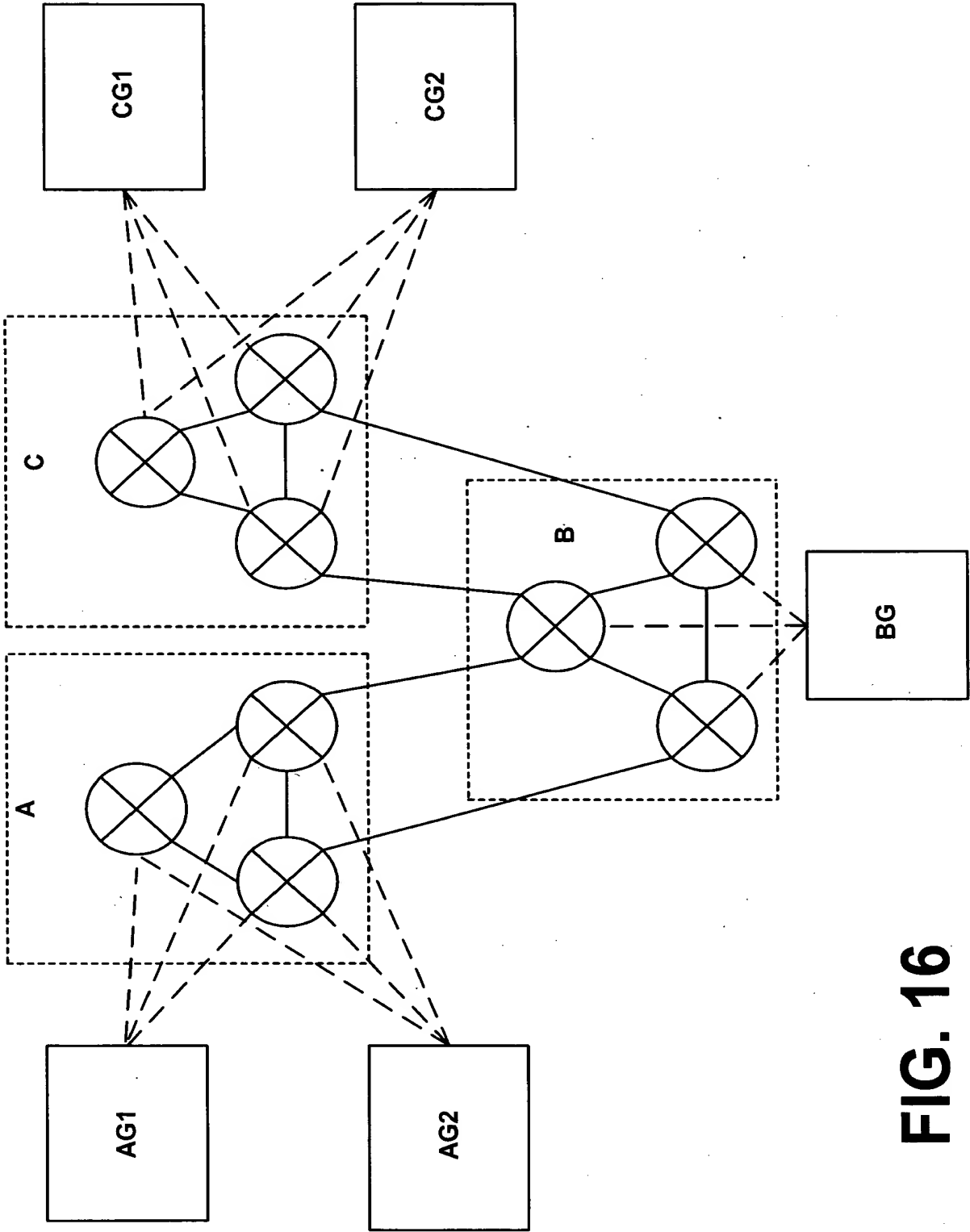


FIG. 16